

Individual Laboratory Worksheet for Institution Use

The Department of Health and Human Services is conducting this inventory of wild poliovirus materials to alert institutions/laboratories to the anticipated global eradication of polio, encourage destruction of all unneeded wild poliovirus materials, and establish a national inventory of laboratories retaining such materials. Laboratories listed national inventory will be kept informed of eradication progress and notified when to implement appropriate biosafety measures to further reduce the risk of transmitting wild poliovirus from the laboratory to the community.

NOTE: Additional information may be found at <http://www.cdc.gov/od/nvpo/polio>.

SECTION A - Review Appendices I & II before completing this form.

1. Do your laboratories store any of these materials?

Yes ☐ No ☐

- Throat, fecal, or autopsy
- Animal
- Environmental (water/sewage)
- Virus isolates or reference strains

If **NO**, please complete Section B.

If **YES**, please respond to question 2.

2. Do stored materials include any of the following?

Yes ☐ No ☐

- Throat, fecal, or environmental materials collected for any purpose at a time or in a geographical area where polio was endemic (see Appendices I and II)
- Clinical materials from polio cases
- Untyped enterovirus-like or undifferentiated poliovirus isolates
- Wild poliovirus infected cell cultures, stocks, research materials, and infected laboratory animals

If **NO**, please complete Section B.

If **YES**, please complete Sections B and C.

SECTION B

There are _____ relevant biomedical laboratories under my jurisdiction. All have been searched for wild poliovirus materials.
(Number)

☐ 1. No such materials were identified or such materials have been destroyed.

☐ 2. Laboratories possessing wild poliovirus materials are listed in Section C.

Director Name: _____ Email: _____

Location: _____ Phone: _____

SECTION C:

The following labs have wild poliovirus materials:

| Principal Discipline♦ | Laboratory Name | Infectious Approximate # of Samples | Potential Infectious Approximate # of Samples |
|-----------------------|-----------------|-------------------------------------------|--------------------------------------------------------|
| | | | |
| | | | |
| | | | |
| | | | |

♦ Select principal laboratory function: Virology (V), Microbiology (M), Pathology (P), Other (O).

Please submit report to:

RFO Name: _____ Phone Number: _____

Address: _____ Email: _____

Appendix I

Definition of Wild Poliovirus Infectious Materials[‡]

Clinical materials from confirmed wild poliovirus and vaccine derived poliovirus (VDPV)* infections, environmental sewage or water samples in which such viruses are present, and products of such viruses, including cell culture isolates and reference strains, infected animals or samples from such animals, and laboratory recombinants and derivatives that have wild poliovirus capsid sequences.

* Field isolates consistent with extensive excretion or transmission in the community, usually demonstrating 1-15% differences from parent OPV strains by full VP1 sequence homology. VDPVs are classified as wild for programmatic and containment purpose.

Definition of Potential Wild Poliovirus Infectious Materials[‡]

Feces, respiratory secretions, and environmental sewage and water samples or collected for any purpose at a time and in a geographic area (Appendix II) where wild polioviruses or VDPV were suspected to be present. Also included are poliovirus permissive cells and animals that have been inoculated with the above materials, for example:

- Harvests untested for polioviruses and enteroviruses
- Uncharacterized enterovirus-like cell culture isolates
- Undifferentiated poliovirus isolates

Considered as non-infectious are clinical and environmental materials stored without refrigeration for three months or more, heat inactivated, treated with antiviral disinfectants, or previously tested and found negative for the presence of enteroviruses.

Summary of BSL-2/Polio[‡]

In addition to biosafety level 2 requirements, the BSL-2/polio facility incorporates the following standards:

Operational procedures

- Access to the laboratory is restricted.
- All persons entering the laboratory are fully immunized against polio.

Storage

- Wild poliovirus infectious and potential infectious materials are stored in separate, secure areas with limited access.
- Freezers and refrigerators are clearly marked as containing wild poliovirus materials.
- Freezer inventories are current and complete, including nature of materials, volume or amount, and location in freezer.
- Documentation is current on all materials, including geographical source and date of collection.

Transfer of materials

- All materials are transferred to and from the freezer in leak-proof, break-proof secondary containers.
- Standard operating procedures (SOP) are established, for all spills, breaks and accidents.

[‡] Complete descriptions with examples may be found in the **WHO Global Action Plan For Laboratory Containment of Wild Polioviruses** located at <http://www.cdc.gov/od/nvpo/polio>.

Appendix II

Year of Last Reported Indigenous Poliovirus Case by Country/Territory✦

These dates may refer to limited outbreaks in certain locations. Questions regarding specific collections may be referred to: <http://www.cdc.gov/od/nvpo/polio>

| Country | Year of Last Polio | Country | Year of Last Polio | Country | Year of Last Polio | Country | Year of Last Polio |
|--------------------------|---------------------|-------------------------|--------------------|------------------------|--------------------|-------------------------|--------------------|
| Afghanistan | Ongoing | Dem. Rep. Of the Congo | 2000 | Lesotho | 1987 ¹ | Rwanda | 1999 ² |
| Albania | 1978 | Djibouti | 1999 ² | Liberia | 1999 | Saint Helena | |
| Algeria | 1996 | Dominica | | Libyan Arab Jamahiriya | 1991 ¹ | Saint Kitts & Nevis | 1969 ¹ |
| American Samoa | 1950's ¹ | Dominican Republic | 1985 ³ | Lithuania | 1972 ¹ | Saint Lucia | 1970 ¹ |
| Andorra | 1959 ¹ | Ecuador | 1990 | Luxembourg | 1963 ¹ | St. Vincent & Gren. | 1977 ¹ |
| Angola | Ongoing | Egypt | Ongoing | Macao, SAR | 1975 ¹ | Samoa | 1950s |
| Anguilla | | El Salvador | 1987 ¹ | Madagascar | 1997 | San Marino | 1982 |
| Antigua & Barbuda | 1965 ¹ | Equatorial Guinea | 1992 ¹ | Malawi | 1991 ¹ | Sao Tome & Principe | 1983 |
| Argentina | 1984 ¹ | Eritrea | | Malaysia | 1985 ² | Saudi Arabia | 1995 |
| Armenia | 1995 | Estonia | 1961 | Maldives | 1980 ¹ | Senegal | 1998 |
| Australia | 1972 ² | Ethiopia | Ongoing | Mali | 1999 | Seychelles | 1980s ¹ |
| Austria | 1980 ¹ | Fed. S. of Micronesia | 1970s ¹ | Malta | 1964 ¹ | Sierra Leone | 1999 |
| Azerbaijan | 1995 | Fiji | 1962 ² | Mariana Islands | 1960s ¹ | Singapore | 1973 |
| Bahamas | 1967 ¹ | Finland | 1985 | Marshall Islands | 1976 ¹ | Slovakia | 1960s |
| Bahrain | 1993 ¹ | T.F.Y.R. Macedonia | 1987 ¹ | Martinique | | Slovenia | 1978 ¹ |
| Bangladesh | 2000 | France | 1989 | Mauritania | 1999 | Solomon Islands | <1972 |
| Barbados | 1967 ¹ | French Guiana | 1983 ¹ | Mauritius | 1980 ¹ | Somalia | Ongoing |
| Belarus | 1964 ¹ | French Polynesia | 1982 ² | Mexico | 1990 | South Africa | 1989 |
| Belgium | 1979 ¹ | Gabon | 1996 ² | Monaco | 1964 | Spain | 1988 |
| Belize | 1981 ¹ | Gambia | 1997 ² | Mongolia | 1993 ² | Sri Lanka | 1993 |
| Benin | 2000 | Georgia | 1991 ¹ | Montserrat | | Sudan | Ongoing |
| Bermuda | | Germany | 1990 | Morocco | 1989 ¹ | Suriname | 1982 ¹ |
| Bhutan | 1986 ² | Ghana | 2000 | Mozambique | 1993 ¹ | Swaziland | 1989 ¹ |
| Bolivia | 1989 | Greece | 1982 | Myanmar | 2000 | Sweden | 1977 |
| Bosnia & Herzegovina | 1961 ¹ | Grenada | 1970 ¹ | Namibia | 1995 | Switzerland | 1982 |
| Botswana | 1989 ¹ | Guadeloupe | | Nauru | 1910 ¹ | Syrian Arab Republic | 1998 |
| Brazil | 1989 | Guam | 1964 ¹ | Nepal | 2000 | Tajikistan | 1997 ² |
| British Virgin Islands | | Guatemala | 1990 ¹ | Netherlands | 1993 | Thailand | 1997 |
| Brunei Darussalam | 1978 ² | Guinea | 1999 | Netherlands Antilles | | Togo | 1999 |
| Bulgaria | 1982 | Guinea-Bissau | 1999 | New Zealand | 1962 ¹ | Tokelau | 1950s ¹ |
| Burkna Faso | 2000 | Guyana | 1962 | New Caledonia | 1982 | Tonga | 1982 ¹ |
| Burundi | 1999 ² | Haiti | 1989 ¹ | Nicaragua | 1981 ¹ | Trinidad & Tobago | 1972 |
| Cambodia | 1997 | Honduras | 1989 ¹ | Niger | Ongoing | Tunisia | 1994 |
| Cameroon | 1999 | Hong Kong, SAR | 1983 | Nigeria | Ongoing | Turkey | 1998 |
| Canada | 1979 | Hungary | 1969 | Niue | 1950s ¹ | Turkmenistan | 1996 |
| Cape Verde | 1988 ¹ | Iceland | 1960 ¹ | Norway | 1969 | Turks & Caicos Island | 1977 |
| Cayman Islands | 1958 ¹ | India | Ongoing | Oman | 1993 ¹ | Tuvalu | 1936 ¹ |
| Central African Republic | 2000 | Indonesia | 1995 | Pakistan | Ongoing | Uganda | 1996 |
| Chad | 2000 | Iran (Islamic Republic) | 1997 | Palau | 1940s ¹ | United Kingdom | 1982 |
| Chile | 1975 | Iraq | 2000 | Palestine N.A. | 1988 | Ukraine | 1996 ² |
| China | 1994 | Ireland | 1965 ¹ | Panama | 1972 ¹ | United Arab Emirates | 1992 ¹ |
| Colombia | 1991 | Israel | 1988 | Papua New Guinea | 1996 ¹ | United Rep. Of Tanzania | 1996 |
| Comoros | 1983 ¹ | Italy | 1982 | Paraguay | 1985 ¹ | USA | 1979 |
| Congo | 2000 | Jamaica | 1982 | Peru | 1991 | Uruguay | 1978 ¹ |
| Cook Islands | 1959 | Japan | 1980 | Philippines | 1993 | US Virgin Islands | |
| Costa Rica | 1972 | Jordan | 1988 ¹ | Poland | 1984 | Uzbekistan | 1995 |
| Cote d'Ivoire | 2000 | Kazakhstan | 1995 ¹ | Portugal | 1986 | Vanuatu | 1989 ² |
| Croatia | 1990 | Kenya | 1988 ¹ | Puerto Rico | | Venezuela | 1989 |
| Cuba | 1962 ¹ | Kiribati | | Qatar | 1990 ¹ | Viet Nam | 1997 |
| Cyprus | 1995 | Kuwait | 1985 ¹ | Republic of Korea | 1983 ² | Wallis and Futuna | 1972 ² |
| Czech Republic | 1960 | Kyrgyzstan | 1993 | Republic of Moldova | 1991 ² | Yemen | 1999 ² |
| DPR Korea | 1996 | Latvia | 1962 ¹ | Reunion | 1979 ¹ | Yugoslavia | 1996 |
| Denmark | 1976 | Lao PDR | 1996 | Romania | 1992 | Zambia | 1995 |
| | | Lebanon | 1994 ¹ | Russian Federation | 1996 ² | Zimbabwe | 1991 ² |

✦ Unless noted otherwise, year of last virologically confirmed case is used. 'Ongoing' refers to countries still considered endemic for wild poliovirus at the end of 1999 (shaded).

1 Details about case are not known 2 Clinically confirmed case 3 VDPV Isolated in 2001